



LubriOne™ LB4200-5010 Black

Acetal (POM) Copolymer

Key Characteristics

Product Description

LubriOne™ Lubricated and Wear-Resistant Compounds have been specifically formulated to be self-lubricating materials, offering low coefficient of friction and improved wear resistance properties. LubriOne compounds have been demonstrated to reduce friction, noise, vibration, heat buildup and improve product durability.

General

Material Status	• Commercial: Active
Regional Availability	• Europe
Features	• Copolymer • Lubricated
Uses	• Automotive Applications • Electrical/Electronic Applications • Consumer Applications • Industrial Applications
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.34 to 1.38	1.34 to 1.38	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0 to 12 g/10 min	8.0 to 12 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	6.00 to 8.00 cm³/10min	6.00 to 8.00 cm³/10min	ISO 1133
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	328000 psi	2260 MPa	ISO 527-2
Tensile Strength (Yield)	7250 psi	50.0 MPa	ISO 527-2
Tensile Strain (Break)	35 %	35 %	ISO 527-2
Flexural Modulus	276000 psi	1900 MPa	ISO 178
Flexural Strength	9430 psi	65.0 MPa	ISO 178
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength	3.1 ft·lb/in²	6.5 kJ/m²	ISO 179
Charpy Unnotched Impact Strength	No Break	No Break	ISO 179
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Annealed	293 °F	145 °C	ISO 75-2/B
Heat Deflection Temperature 264 psi (1.8 MPa), Annealed	167 °F	75.0 °C	ISO 75-2/A
Vicat Softening Temperature	302 °F	150 °C	ISO 306
Melting Temperature	329 to 338 °F	165 to 170 °C	
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Comparative Tracking Index	600 V	600 V	IEC 10006
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating	HB	HB	UL 94
FMVSS Burning Speed	mm/min	mm/min	DIN 75200

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 to 212 °F	80 to 100 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	374 to 410 °F	190 to 210 °C
Mold Temperature	167 to 212 °F	75 to 100 °C

Notes

¹ Typical values are not to be construed as specifications.



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